

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,778	08/30/2001	Anders Linge	29206-00042	1803
75	590 04/26/2004		EXAM	INER
Stanley R. Moore, Esq.			LEE, JOHN J	
JENKENS & G	ILCHRIST, P.C.	•		
1445 Ross Avenue, Suite 3200			ART UNIT	PAPER NUMBER
Dallas, TX 75202-2799			2684	

DATE MAILED: 04/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/944,778	LINGE, ANDERS				
Office Action Summary	Examiner	Art Unit				
•	JOHN J LEE	2684				
The MAILING DATE of this communica						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) d. - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 17 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thir pry period will apply and will expire SIX (6) MON, by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	on 30 August 2001.					
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the app	lication.					
, , ,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	n and/or election requirement.					
Application Papers						
9) The specification is objected to by the E	xaminer.					
10) The drawing(s) filed on is/are: a		by the Examiner.				
Applicant may not request that any objectio						
Replacement drawing sheet(s) including the	= : :					
11) The oath or declaration is objected to by	· /-					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for	foreign priority under 35 H S C 3	\$ 119(a) (d) or (f)				
a) ☐ Acknowledgment is made of a claim for a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority do		3 119(a)-(u) or (i).				
2. Certified copies of the priority do		Application No				
3. Copies of the certified copies of t	·	received in this National Stage				
application from the International * See the attached detailed Office action for		raceivad				
See the attached detailed Office action is	or a list of the certified copies flot	I GOGIYGU.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO		s)/Mail Date nformal Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 2.4. 	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Kintz et al. (US Patent number 6,275,714) in view of Heikkinen et al. (US Patent number 6,073,036).

Regarding **claim 1**, Kintz discloses that a portable communications device (Fig. 3) having a first microdisplay (12 in Fig. 3), virtual image display, and a second at least partially transmissive display (19 in Fig. 3) (column 3, lines 60 – column 4, lines 56, Fig. 3, 10, and column 6, lines 30 – column 7, lines 4, where teaches mobile phone attached the a virtual image display which provides a displayed image (LCD) (19) and virtual image display (12)).

Kintz does not specifically disclose the limitation "mobile device has a second display in front of the first microdisplay". However, Heikkinen discloses the limitation "mobile device has a second display in front of the first microdisplay" (Fig. 1, 3 and column 8, lines 8 – 39, where teaches the virtual display/screen, generating a projection display, and miniaturized display uses a two dimensional array of GaAs light emitting pn junctions). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Kintz system as taught by Heikkinen. The

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motivation do so would be to achieve an efficient virtual image displays within mobile station for allowing users to view documents and graphics.

Regarding **claims 2, 15, and 23**, Kintz discloses that the second display and the screen of said microdisplay are inclined to one another (Fig. 10 and column 6, lines 30 – column 7, lines 4).

Regarding **claims 3, 16, and 24**, Kintz discloses that the second display and the screen of said microdisplay are disposed substantially perpendicular to one another (Fig. 10 and column 6, lines 12 – column 7, lines 4).

Regarding **claim 4**, Kintz discloses that the second display and the first microdisplay may be operated independently (column 3, lines 60 – column 4, lines 56, Fig. 3, 10, and column 6, lines 30 – column 7, lines 4).

Regarding claim 5, Kintz discloses that the microdisplay can serve as a backlight for said second display (Fig. 11 and column7, lines 5-57).

Regarding **claim 6**, Kintz discloses that the second display may be made substantially transparent when not in use (Fig. 3 and column 3, lines 43 – column 4, lines 39).

Regarding **claim 7**, Kintz discloses that the second display is a transflective display (Fig. 10 and column 6, lines 12 – column 7, lines 4).

Regarding **claim 8**, Kintz discloses that the transflective display is a transflective liquid crystal display (LCD) (Fig. 10, 11 and column 6, lines 12 – column 7, lines 57).

Regarding claims 9 and 18, Kintz discloses that the portable communications device is a radiotelephone (Fig. 1 and column 3, lines 16 - 34).

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Regarding **claims 10, 19, and 26**, Kintz discloses that status information and memoranda may be displayed on said second display (Fig. 9 and column 6, lines 25 – column 7, lines 45).

Regarding **claims 11, 20, and 27**, Kintz discloses that high-resolution graphics may be displayed on said microdisplay (column 7, lines 31 – column 8, lines 20 and Fig. 11).

Regarding claims 12, 21, and 28, Kintz discloses that motion video may be displayed on said microdisplay (Fig. 10, 11 and column 6, lines 12 – column 7, lines 57).

Regarding **claim 13**, Kintz and Heikkinen disclose all the limitation, as discussed in claim 1. Furthermore, Kintz further discloses that the first microdisplay (virtual image display (12)) being viewable through the second display (viewable through the displaying LCD (19), Fig. 10), and the device being operable in a first display mode (column 6, lines 30 – column 7, lines 4, where teaches microdisplay mode for displaying virtual images), in which the second display (LCD, displaying device) is activated (column 3, lines 60 – column 4, lines 56, Fig. 3, 10, and column 6, lines 30 – column 7, lines 4). Kintz teaches that the first microdisplay inactive, and a second display mode, in which the microdisplay is activated, and the second display rendered transparent (Fig. 10, 11, column 7, lines 46 – column 8, lines 20, and column 4, lines 16 – 25).

Regarding **claim 14**, Kintz discloses that the second display is a transflective liquid crystal display (LCD) (Fig. 10, 11 and column 6, lines 12 – column 7, lines 57).

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Regarding claims 17 and 25, Kintz discloses that operable in a third display mode, in which the second display is activated and the first microdisplay used as a backlight for said second display (Fig. 11 and column7, lines 5 - 57).

Regarding claim 22, Kintz and Heikkinen disclose all the limitation, as discussed in claims 1 and 13. Furthermore, Kintz further discloses that a signal from a microprocessor and operating a display in a first mode (Fig. 9 and column 6, lines 25 – column 7, lines 45).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kieinschmidt et al. (US Patent number 6,085,112) discloses Communication Device.

Reitmaa et al. (US Patent number 6,424,843) discloses Multi-Function Telecommunication Device.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is (703) 306-5936. He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Nay Aung Maung**, can be reached on (703) 308-7745. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

J.L

April 7, 2004

John I Lee

NICK CORSARO

PATENT EXAMINER